

AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

1.-33. (Canceled)

34. (Original) A method of producing a B6 vitamer comprising culturing a microorganism that has been genetically modified to overexpress one or more genes that encodes an enzyme that catalyzes a step in the biosynthesis of a B6 vitamer, such that B6 vitamer production from said modified organism is increased compared to B6 production in an unmodified parent organism, under conditions such that the B6 vitamer is produced.

35. (Original) The method of claim 34, wherein said enzyme is one or more of YaaD or YaaE.

36. (Original) The method of claim 34, wherein at least one of said genes is a *yaaD* gene.

37. (Original) The method of claim 34, wherein at least one of said genes is a *yaaE* gene.

38. (Original) The method of claim 34, wherein said genes are contained on the *yaaDE* operon.

39. (Original) The method of claim 34, wherein the B6 vitamer is pyridoxine.

40. (Original) The method of claim 34, wherein the B6 vitamer is pyridoxal.

41. (Original) The method of claim 34, wherein the B6 vitamer is pyridoxamine.

42. (Original) The method of claim 34, wherein said genes are bacterial derived.

43. (Original) The method of claim 34, wherein said genes are derived from *Bacillus*.

44. (Original) The method of claim 34, wherein said genes are derived from *Bacillus subtilis*.

45. (Original) The method of claim 34, wherein the microorganism is Gram positive.

46. (Original) The method of claim 34, wherein the microorganism is a microorganism belonging to a genus selected from the group consisting of *Bacillus*, *Corynebacterium*, *Lactobacillus*, *Lactococci* and *Streptomyces*.

47. (Original) The method of claim 34, wherein the microorganism is of the genus *Bacillus*.

48. (Original) The method of claim 34, wherein the microorganism is *Bacillus subtilis*.

49. (Original) The method of claim 34, further comprising recovering the B6 vitamer.

50.-82. (Canceled)

83. (New) The method of claim 36, wherein said *yaaD* gene encodes a polypeptide comprising the amino acid sequence of SEQ ID NO:21.

84. (New) The method of claim 37, wherein said *yaaE* gene encodes a polypeptide comprising the amino acid sequence SEQ ID NO:23.

85. (New) The method of claim 36, wherein said *yaaD* gene encodes a polypeptide comprising an amino acid sequence which is at least 30% identical to the amino acid sequence of SEQ ID NO:21, said polypeptide having a YaaD activity.

86. (New) The method of claim 37, wherein said *yaaE* gene encodes a polypeptide comprising an amino acid sequence which is at least 30% identical to the amino acid sequence of SEQ ID NO:23, said polypeptide having a YaaE activity.

87. (New) The method of claim 36, wherein the gene comprises the nucleotide sequence of SEQ ID NO:20.

88. (New) The method of claim 36, wherein the gene comprises the nucleotide sequence of SEQ ID NO:22.